



## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/722,689  
Source: TFAD  
Date Processed by STIC: 12/15/03

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

**FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221**

**Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:**

**<http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/03):  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03



IFW

## RAW SEQUENCE LISTING

DATE: 12/15/2003

PATENT APPLICATION: US/10/722,689

TIME: 15:38:49

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\12112003\J722689.raw

4 <110> APPLICANT: STEVENSON, Mario  
 5 JACQUE, Jean-Marc  
 7 <120> TITLE OF INVENTION: MODULATION OF HIV REPLICATION BY RNA  
 8 INTERFERENCE  
 10 <130> FILE REFERENCE: UMY-0034  
 > 12 <140> CURRENT APPLICATION NUMBER: US/10/722,689  
 > 12 <141> CURRENT FILING DATE: 2003-11-24  
 12 <150> PRIOR APPLICATION NUMBER: 60/428631  
 13 <151> PRIOR FILING DATE: 2002-11-22  
 15 <150> PRIOR APPLICATION NUMBER: 60/444893  
 16 <151> PRIOR FILING DATE: 2003-02-04  
 18 <160> NUMBER OF SEQ ID NOS: 20  
 20 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 22 <210> SEQ ID NO: 1  
 23 <211> LENGTH: 21  
 24 <212> TYPE: RNA  
 25 <213> ORGANISM: Artificial Sequence  
 27 <220> FEATURE:  
 28 <223> OTHER INFORMATION: siRNA oligonucleotide  
 > 30 <221> NAME/KEY: misc feature  
 31 <222> LOCATION: 20, 21  
 32 <223> OTHER INFORMATION: n = deoxythymidine  
 > 34 <400> 1  
 > 35 ggaaagcuaa ggacugguun n  
 37 <210> SEQ ID NO: 2  
 38 <211> LENGTH: 21  
 39 <212> TYPE: RNA  
 40 <213> ORGANISM: Artificial Sequence  
 42 <220> FEATURE:  
 43 <223> OTHER INFORMATION: siRNA oligonucleotide  
 > 45 <221> NAME/KEY: misc feature  
 46 <222> LOCATION: 20, 21  
 47 <223> OTHER INFORMATION: n = deoxythymidine  
 > 49 <400> 2  
 > 50 agcacacaag uagaccuugn n  
 52 <210> SEQ ID NO: 3  
 53 <211> LENGTH: 21  
 54 <212> TYPE: RNA  
 55 <213> ORGANISM: Artificial Sequence  
 57 <220> FEATURE:  
 58 <223> OTHER INFORMATION: siRNA oligonucleotide  
 > 60 <221> NAME/KEY: misc feature  
 61 <222> LOCATION: 20, 21

Does Not Comply  
 Corrected Diskette Needed

(p.1-3)

thymine (or modification) is not allowed  
 in an RNA, even if it is represented by  
 "n"

21

FYI: For a combined  
 DNA/RNA sequence,  
 use <212> DNA, and  
 explain in <220>-<223>  
 section.

21

Same error

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Input Set : A:\seqlist.txt

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62 <223> OTHER INFORMATION: n = deoxythymidine *- same error*

> 64 <400> 3

> 65 cuuggcacua gcagcauan n 21

67 <210> SEQ ID NO: 4

68 <211> LENGTH: 20

69 <212> TYPE: RNA

70 <213> ORGANISM: Artificial Sequence

72 <220> FEATURE:

73 <223> OTHER INFORMATION: siRNA oligonucleotide

> 75 <221> NAME/KEY: misc feature

76 <222> LOCATION: 19, 20

77 <223> OTHER INFORMATION: n = deoxythymidine *- same error*

> 79 <400> 4

> 80 gaaagcuagg ggaugguunn 20

82 <210> SEQ ID NO: 5

83 <211> LENGTH: 21

84 <212> TYPE: RNA

85 <213> ORGANISM: Artificial Sequence

87 <220> FEATURE:

88 <223> OTHER INFORMATION: siRNA oligonucleotide

> 90 <221> NAME/KEY: misc feature

91 <222> LOCATION: 20, 21

92 <223> OTHER INFORMATION: n = A, T C or G

> 94 <400> 5

> 95 cuuggcacua acagcauan n 21

97 <210> SEQ ID NO: 6

98 <211> LENGTH: 19

99 <212> TYPE: RNA

100 <213> ORGANISM: Artificial Sequence

102 <220> FEATURE:

103 <223> OTHER INFORMATION: siRNA oligonucleotide

105 <400> SEQUENCE: 6

106 gacuucaagg aagauggca 19

108 <210> SEQ ID NO: 7

109 <211> LENGTH: 21

110 <212> TYPE: RNA

111 <213> ORGANISM: Artificial Sequence

113 <220> FEATURE:

114 <223> OTHER INFORMATION: siRNA oligonucleotide

> 116 <221> NAME/KEY: misc feature

117 <222> LOCATION: 20, 21

118 <223> OTHER INFORMATION: n = deoxythymidine *- same error*

> 120 <400> 7

> 121 gacuucaagg gagauggcan n 21

123 <210> SEQ ID NO: 8

124 <211> LENGTH: 21

125 <212> TYPE: RNA

126 <213> ORGANISM: Artificial Sequence

128 <220> FEATURE:

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Input Set : A:\seqlist.txt

Output Set: N:\CRF4\12112003\J722689.raw

129 <223> OTHER INFORMATION: siRNA oligonucleotide

> 131 <221> NAME/KEY: misc feature

132 <222> LOCATION: 20, 21

133 <223> OTHER INFORMATION: n = deoxythymidine

> 135 <400> 8

> 136 guggcuggcu agaagcacan n 21

138 <210> SEQ ID NO: 9

139 <211> LENGTH: 21

140 <212> TYPE: RNA

141 <213> ORGANISM: Artificial Sequence

143 <220> FEATURE:

144 <223> OTHER INFORMATION: siRNA oligonucleotide

> 146 <221> NAME/KEY: misc feature

147 <222> LOCATION: 20, 21

148 <223> OTHER INFORMATION: n = deoxythymidine

> 150 <400> 9

> 151 agaccagauc ugagccuggn n 21

153 <210> SEQ ID NO: 10

154 <211> LENGTH: 21

155 <212> TYPE: RNA

156 <213> ORGANISM: Artificial Sequence

158 <220> FEATURE:

159 <223> OTHER INFORMATION: siRNA oligonucleotide

> 161 <221> NAME/KEY: misc feature

162 <222> LOCATION: 20, 21

163 <223> OTHER INFORMATION: n = deoxythymidine

> 165 <400> 10

> 166 agaccagaua ugagccuggn n 21

168 <210> SEQ ID NO: 11

169 <211> LENGTH: 22

170 <212> TYPE: DNA

171 <213> ORGANISM: Artificial Sequence

173 <220> FEATURE:

174 <223> OTHER INFORMATION: primer

176 <400> SEQUENCE: 11

177 tagaccagat ctgagcctgg ga 22

179 <210> SEQ ID NO: 12

180 <211> LENGTH: 22

181 <212> TYPE: DNA

182 <213> ORGANISM: Artificial Sequence

184 <220> FEATURE:

185 <223> OTHER INFORMATION: primer

187 <400> SEQUENCE: 12

188 gtagttctgc caatcaggga ag 22

190 <210> SEQ ID NO: 13

191 <211> LENGTH: 21

192 <212> TYPE: DNA

193 <213> ORGANISM: Artificial Sequence

195 <220> FEATURE:

- SAME error

- SAME error

- SAME error

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/722,689

DATE: 12/15/2003

TIME: 15:38:49

Input Set : A:\seqlist.txt

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```

196 <223> OTHER INFORMATION: primer
198 <400> SEQUENCE: 13
199 gtctgagggga tctctagtta c 21
201 <210> SEQ ID NO: 14
202 <211> LENGTH: 19
203 <212> TYPE: DNA
204 <213> ORGANISM: Artificial Sequence
206 <220> FEATURE:
207 <223> OTHER INFORMATION: primer
209 <400> SEQUENCE: 14
210 gggagctctc tggctaaact 19
212 <210> SEQ ID NO: 15
213 <211> LENGTH: 20
214 <212> TYPE: DNA
215 <213> ORGANISM: Artificial Sequence
217 <220> FEATURE:
218 <223> OTHER INFORMATION: primer
220 <400> SEQUENCE: 15
221 ggattaactg cgaatcgttc 20
223 <210> SEQ ID NO: 16
224 <211> LENGTH: 17
225 <212> TYPE: DNA
226 <213> ORGANISM: Artificial Sequence
228 <220> FEATURE:
229 <223> OTHER INFORMATION: primer
231 <400> SEQUENCE: 16
232 gacagggctt ggaaagg 17
234 <210> SEQ ID NO: 17
235 <211> LENGTH: 20
236 <212> TYPE: DNA
237 <213> ORGANISM: Artificial Sequence
239 <220> FEATURE:
240 <223> OTHER INFORMATION: primer
242 <400> SEQUENCE: 17
243 ttagcagttc tgaagtactc 20
245 <210> SEQ ID NO: 18
246 <211> LENGTH: 21
247 <212> TYPE: DNA
248 <213> ORGANISM: Artificial Sequence
250 <220> FEATURE:
251 <223> OTHER INFORMATION: primer
253 <400> SEQUENCE: 18
254 tgctgggatt acaggcgtga g 21
256 <210> SEQ ID NO: 19
257 <211> LENGTH: 21
258 <212> TYPE: DNA
259 <213> ORGANISM: Artificial Sequence
261 <220> FEATURE:
262 <223> OTHER INFORMATION: primer

```

## RAW SEQUENCE LISTING

DATE: 12/15/2003

PATENT APPLICATION: US/10/722,689

TIME: 15:38:49

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\12112003\J722689.raw

264 <400> SEQUENCE: 19  
265 ggctaactag ggaacccact g 21  
267 <210> SEQ ID NO: 20  
268 <211> LENGTH: 24  
269 <212> TYPE: DNA  
270 <213> ORGANISM: Artificial Sequence  
272 <220> FEATURE:  
273 <223> OTHER INFORMATION: primer  
275 <400> SEQUENCE: 20  
276 ctgctagaga ttttccacac tgac 24

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/722,689

DATE: 12/15/2003  
TIME: 15:38:50

Input Set : A:\seqlist.txt  
Output Set: N:\CRF4\12112003\J722689.raw

ase Note:

of n and/or Xaa have been detected in the Sequence Listing. Please review the  
uence Listing to ensure that a corresponding explanation is presented in the <220>  
<223> fields of each sequence which presents at least one n or Xaa.

#:1; N Pos. 20,21  
#:2; N Pos. 20,21  
#:3; N Pos. 20,21  
#:4; N Pos. 19,20  
#:5; N Pos. 20,21  
#:7; N Pos. 20,21  
#:8; N Pos. 20,21  
#:9; N Pos. 20,21  
#:10; N Pos. 20,21

## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/722,689

DATE: 12/15/2003

TIME: 15:38:50

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\12112003\J722689.raw

2 M:270 C: Current Application Number differs, Replaced Current Application No  
2 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
0 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
4 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1  
5 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
5 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
9 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2  
0 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
0 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
4 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3  
5 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
5 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
9 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4  
0 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0  
0 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
4 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5  
5 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0  
16 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
20 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7  
21 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0  
31 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
35 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:8  
36 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0  
46 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
50 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9  
51 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0  
61 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
65 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:10  
66 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0